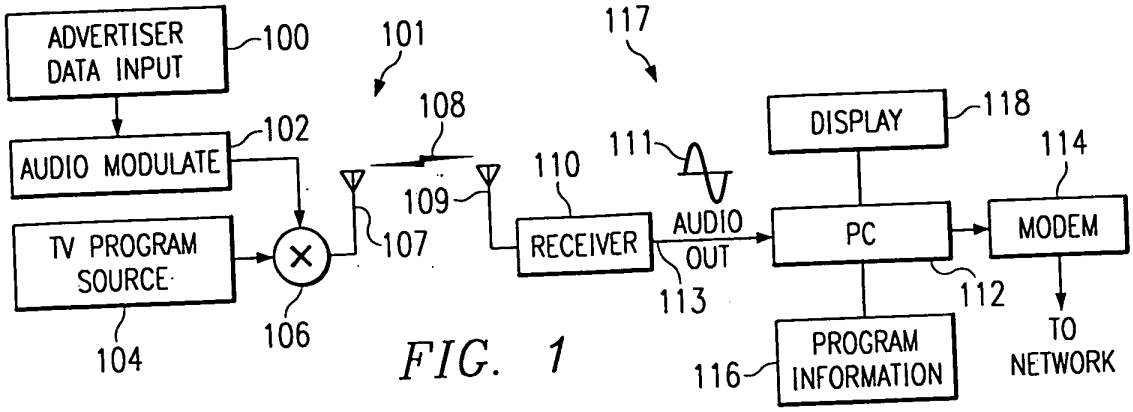


FIG. 1

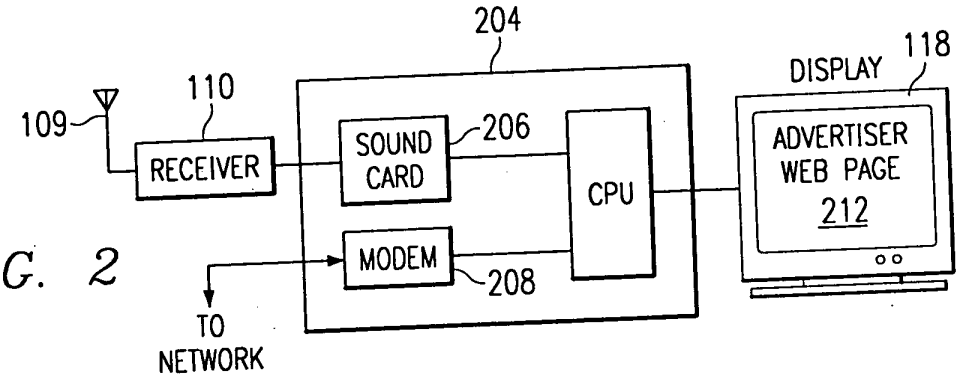


FIG. 2

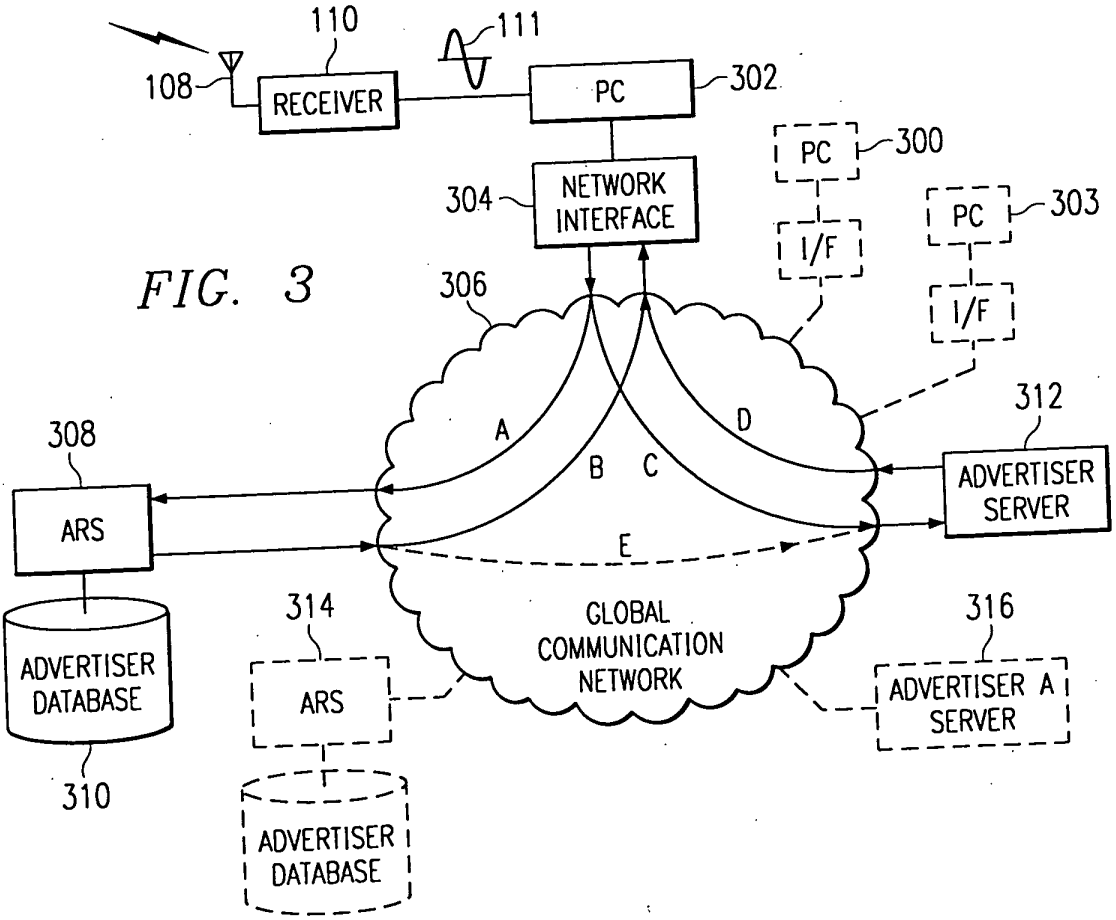


FIG. 3

PATH A: SOURCE TO ARS

FIG. 4a

PATH B: ARS TO SOURCE

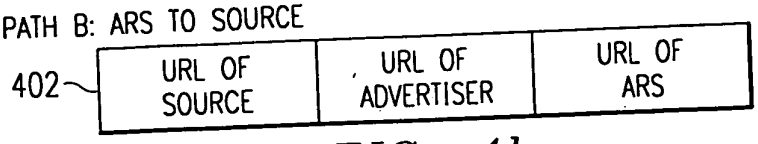


FIG. 4b

PATH C: SOURCE TO ADVERTISER

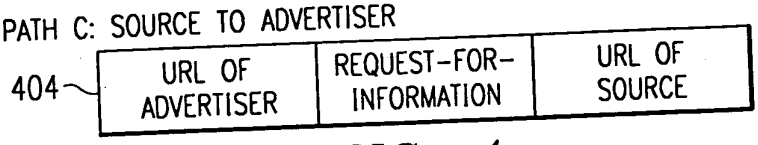


FIG. 4c

PATH D: ADVERTISER TO SOURCE

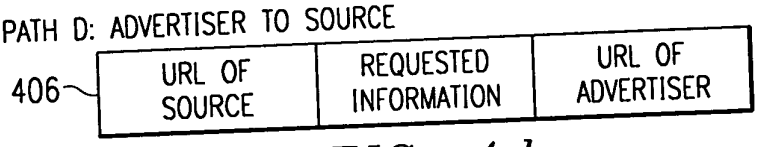


FIG. 4d

PATH E: ARS TO ADVERTISER (OPTIONAL)

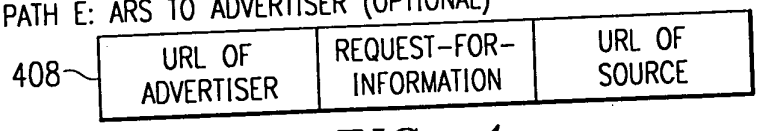


FIG. 4e

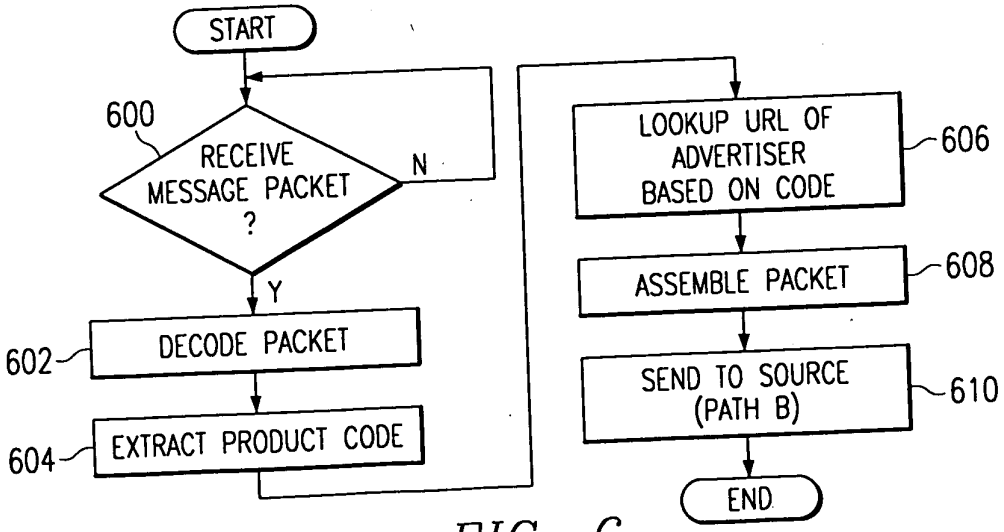


FIG. 6

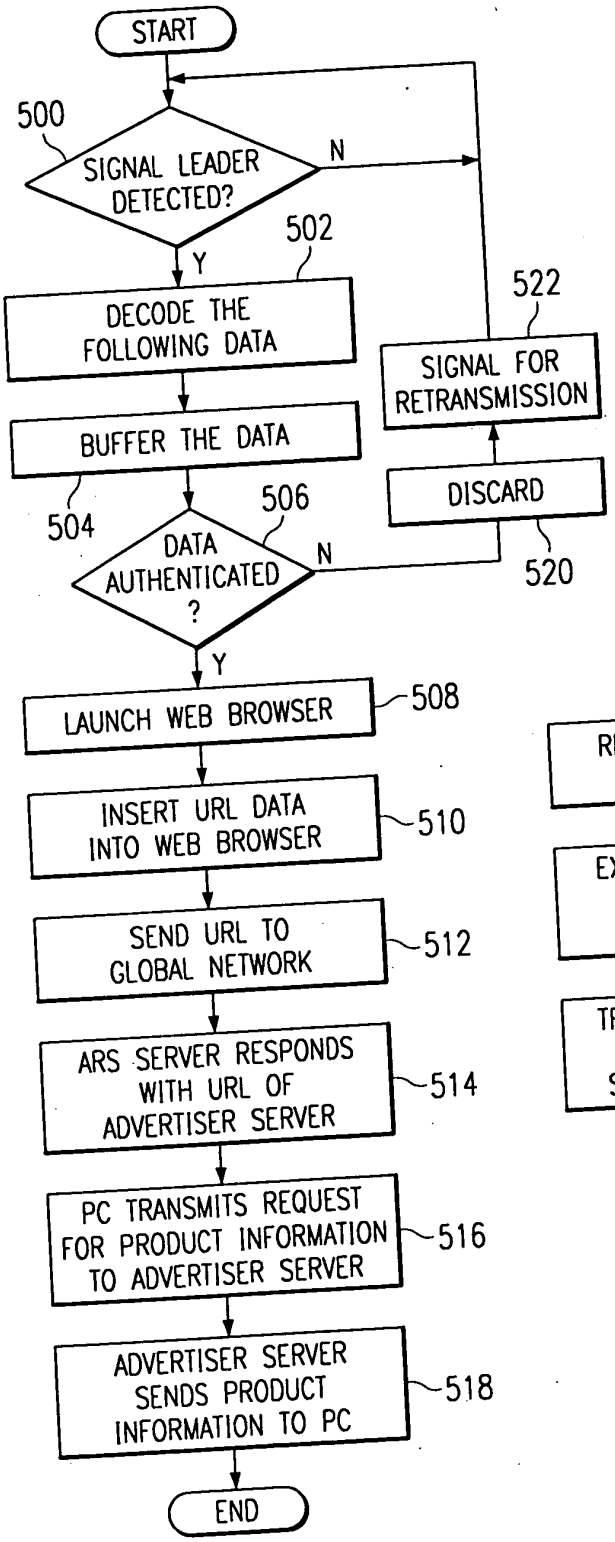

START
500
SIGNAL LEADER DETECTED?
N
Y
502
DECODE THE FOLLOWING DATA
BUFFER THE DATA
504
506
DATA AUTHENTICATED ?
N
Y
522
SIGNAL FOR RETRANSMISSION
DISCARD
520
LAUNCH WEB BROWSER
508
INSERT URL DATA INTO WEB BROWSER
510
SEND URL TO GLOBAL NETWORK
512
ARS SERVER RESPONDS WITH URL OF ADVERTISER SERVER
514
PC TRANSMITS REQUEST FOR PRODUCT INFORMATION TO ADVERTISER SERVER
516
ADVERTISER SERVER SENDS PRODUCT INFORMATION TO PC
518
END

FIG. 5

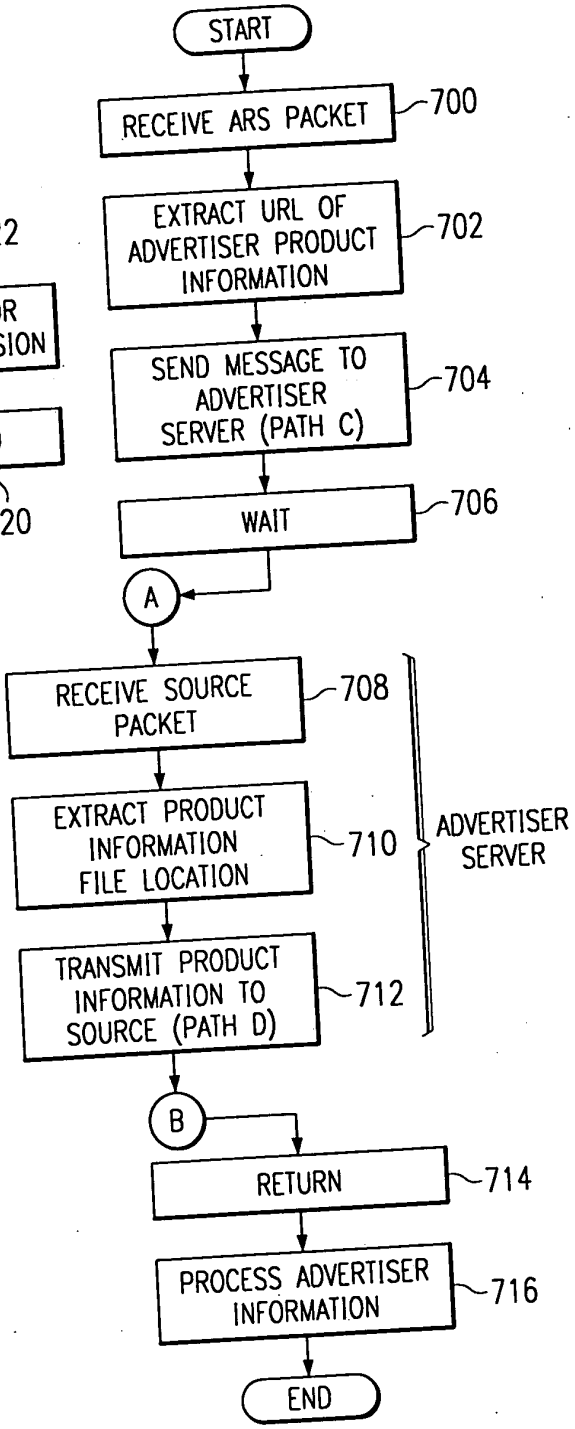

START
RECEIVE ARS PACKET
700
EXTRACT URL OF ADVERTISER PRODUCT INFORMATION
702
SEND MESSAGE TO ADVERTISER SERVER (PATH C)
704
WAIT
706
A
RECEIVE SOURCE PACKET
708
EXTRACT PRODUCT INFORMATION FILE LOCATION
710
TRANSMIT PRODUCT INFORMATION TO SOURCE (PATH D)
712
ADVERTISER SERVER
B
RETURN
714
PROCESS ADVERTISER INFORMATION
716
END

FIG. 7

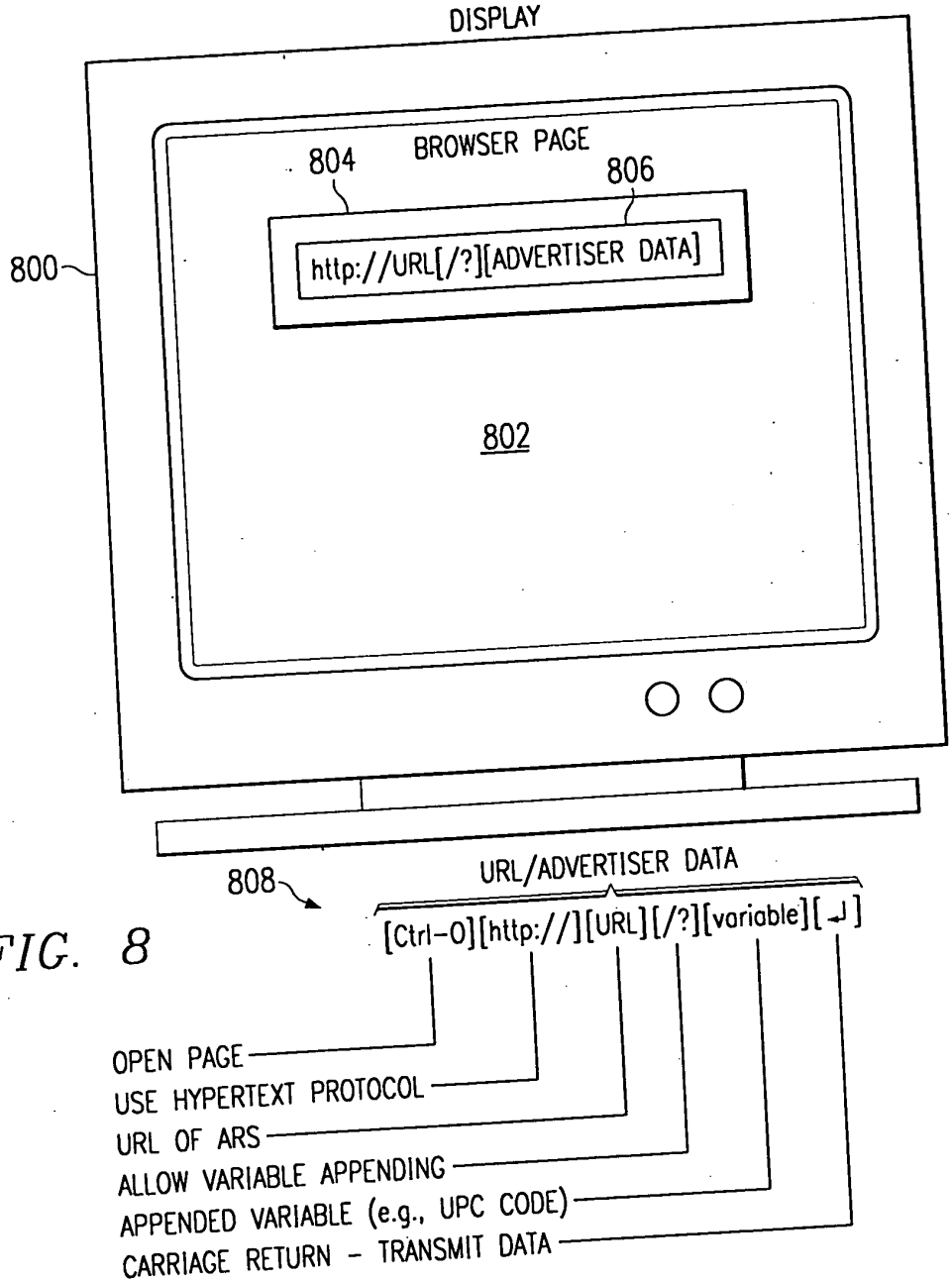


FIG. 8

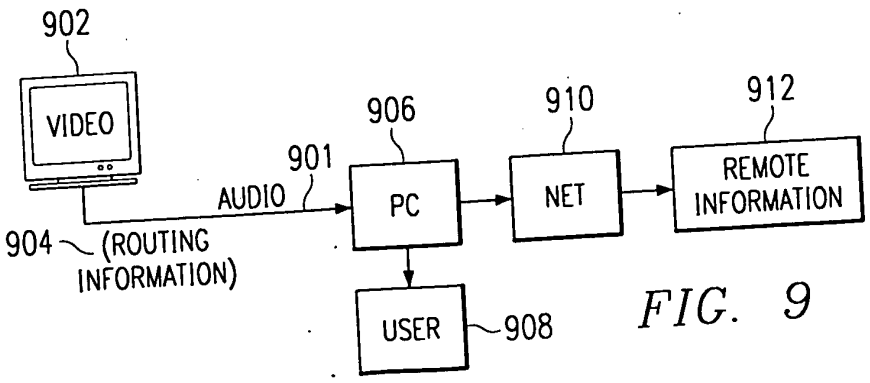


FIG. 9

Doc3536 - 04/20/00

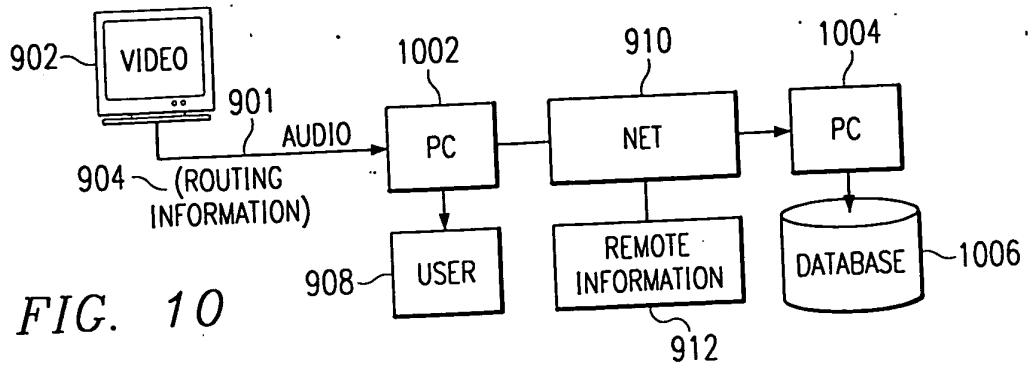


FIG. 10

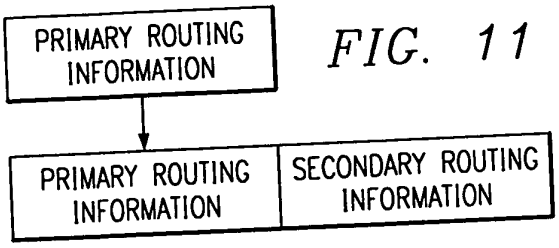


FIG. 11

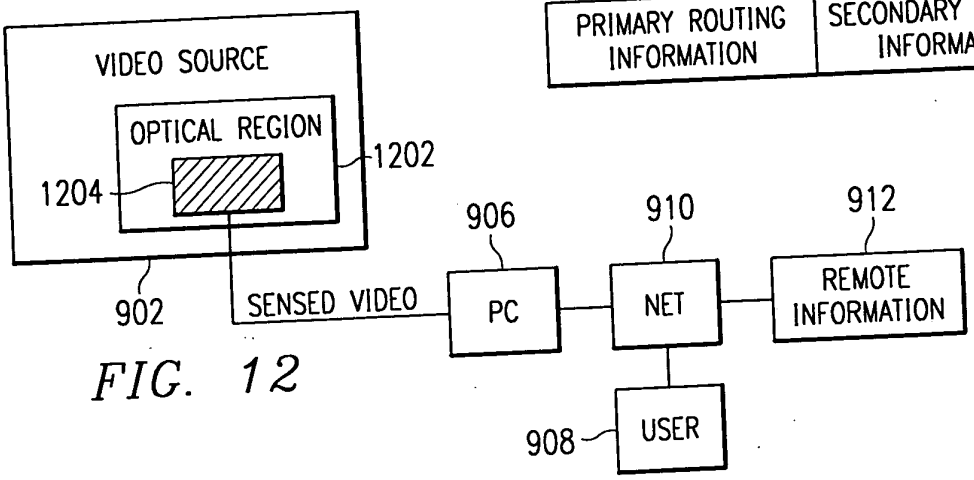


FIG. 12

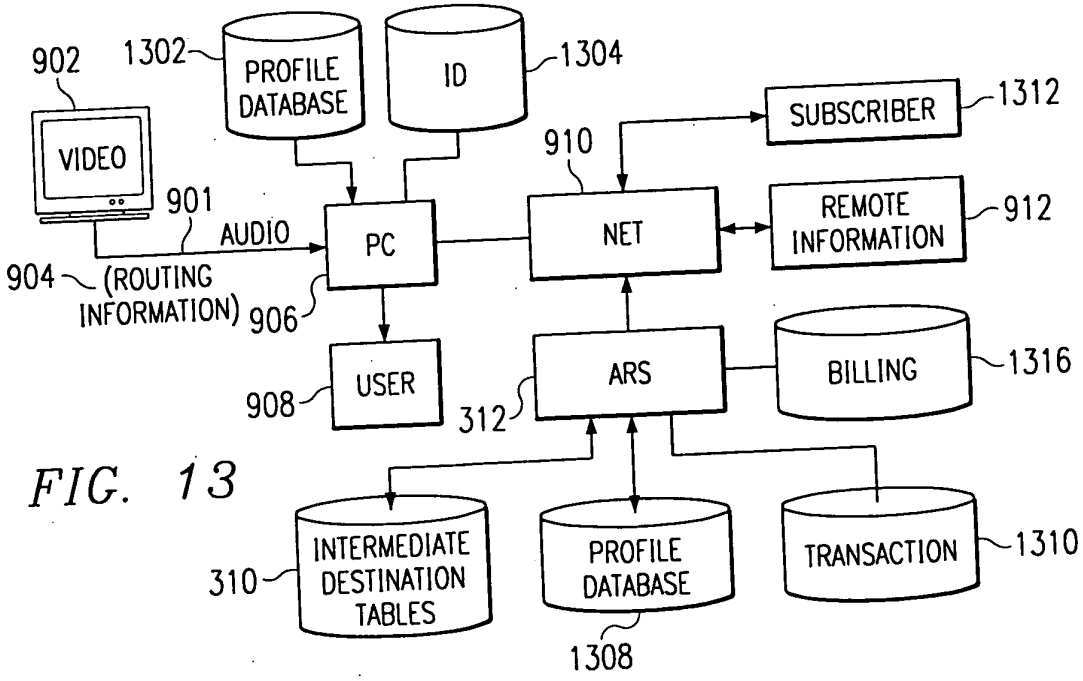


FIG. 13

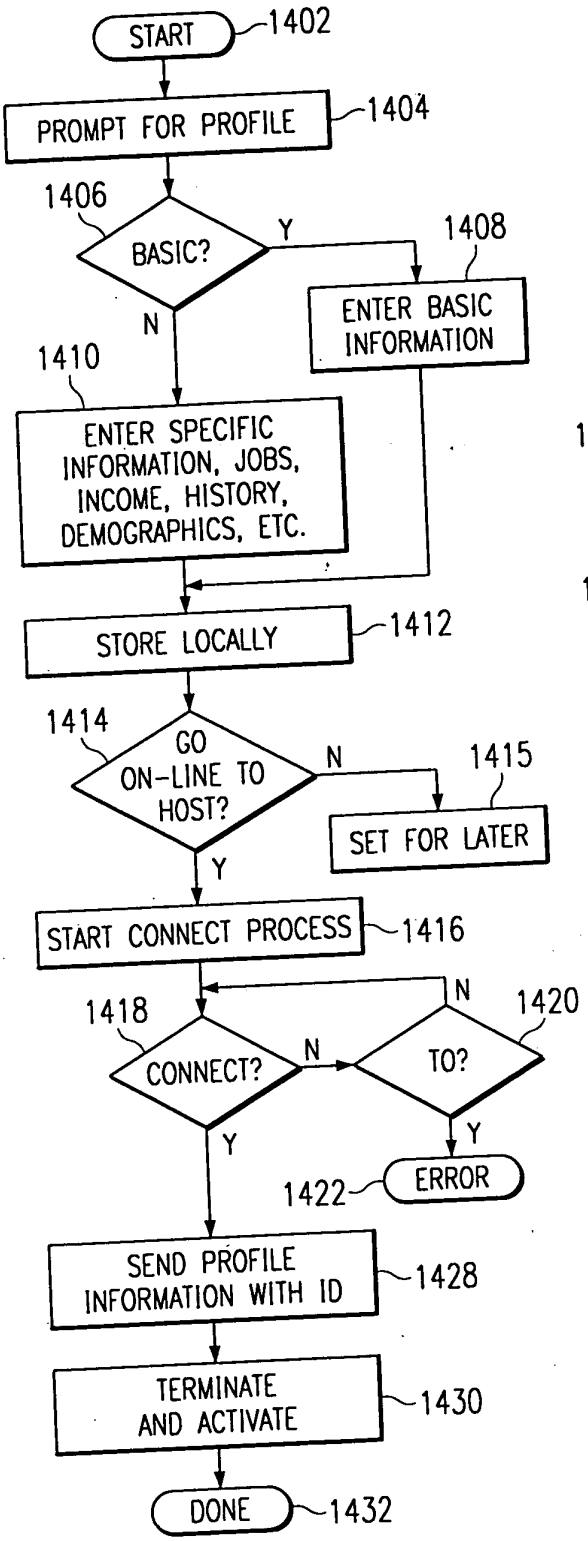

START
1402
PROMPT FOR PROFILE
1404
1406
BASIC?
Y
1408
ENTER BASIC INFORMATION
N
1410
ENTER SPECIFIC INFORMATION, JOBS, INCOME, HISTORY, DEMOGRAPHICS, ETC.
STORE LOCALLY
1412
1414
GO ON-LINE TO HOST?
N
1415
SET FOR LATER
Y
START CONNECT PROCESS
1416
1418
CONNECT?
N
TO?
1420
N
Y
Y
1422
ERROR
SEND PROFILE INFORMATION WITH ID
1428
TERMINATE AND ACTIVATE
1430
DONE
1432

FIG. 14

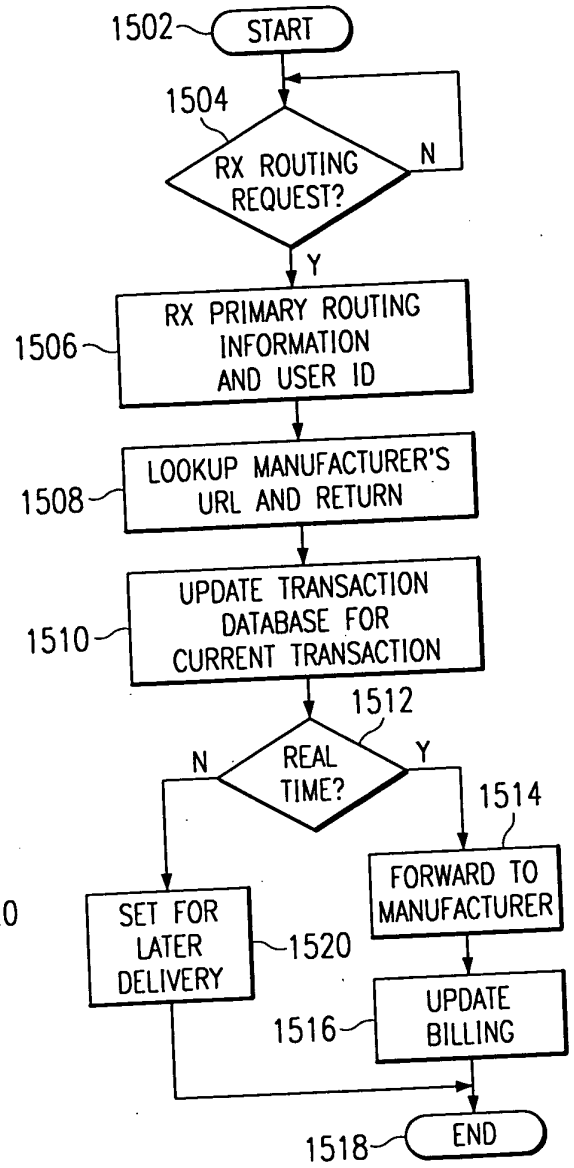

1502
START
1504
RX ROUTING REQUEST?
N
Y
1506
RX PRIMARY ROUTING INFORMATION AND USER ID
1508
LOOKUP MANUFACTURER'S URL AND RETURN
1510
UPDATE TRANSACTION DATABASE FOR CURRENT TRANSACTION
1512
REAL TIME?
N
Y
1514
FORWARD TO MANUFACTURER
SET FOR LATER DELIVERY
1520
1516
UPDATE BILLING
1518
END

FIG. 15

00h2TO' 9E06h60

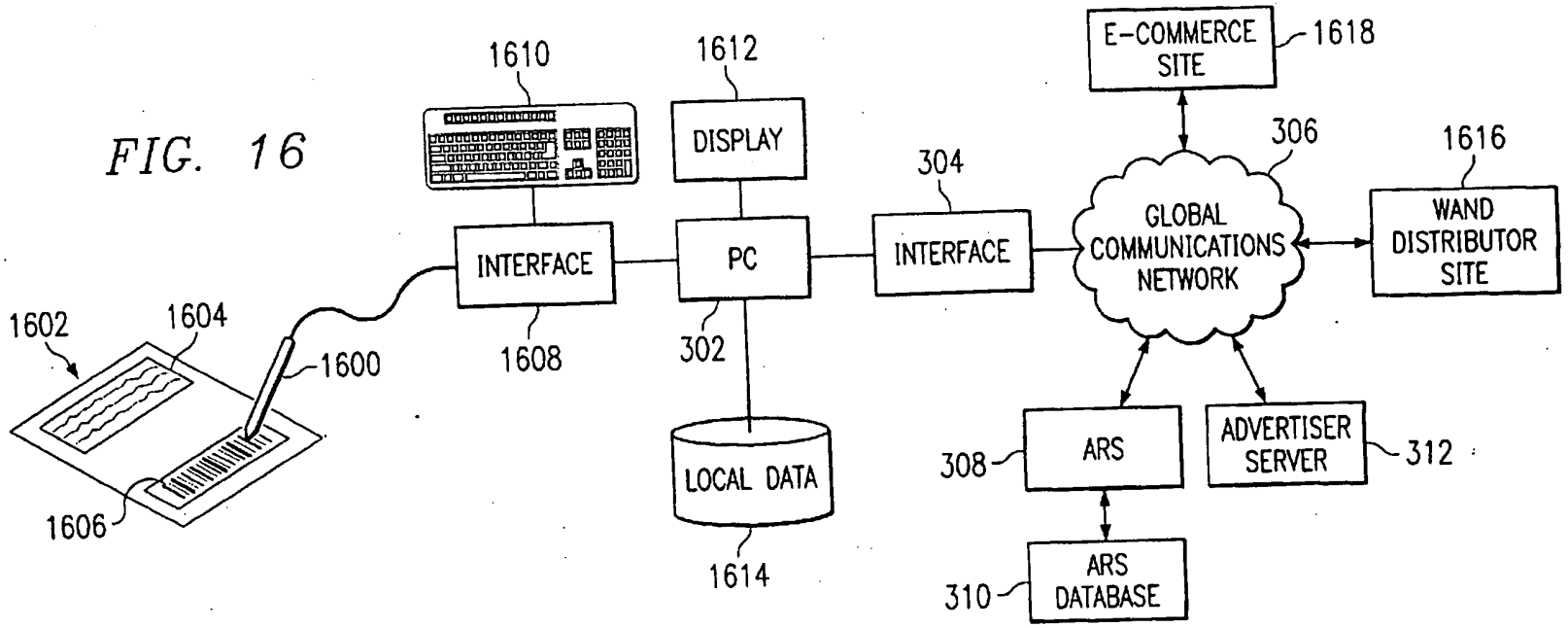


FIG. 16

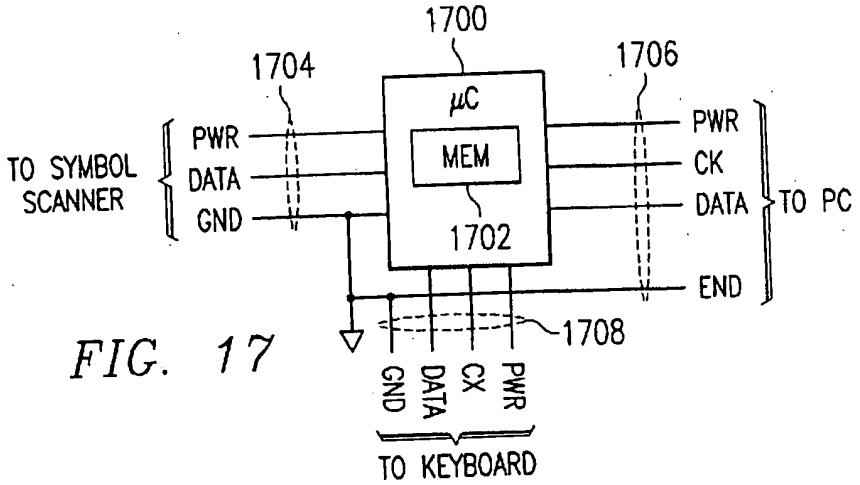


FIG. 17

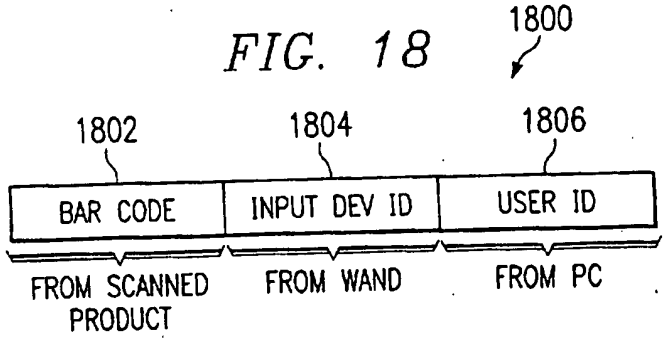


FIG. 18

FIG. 19

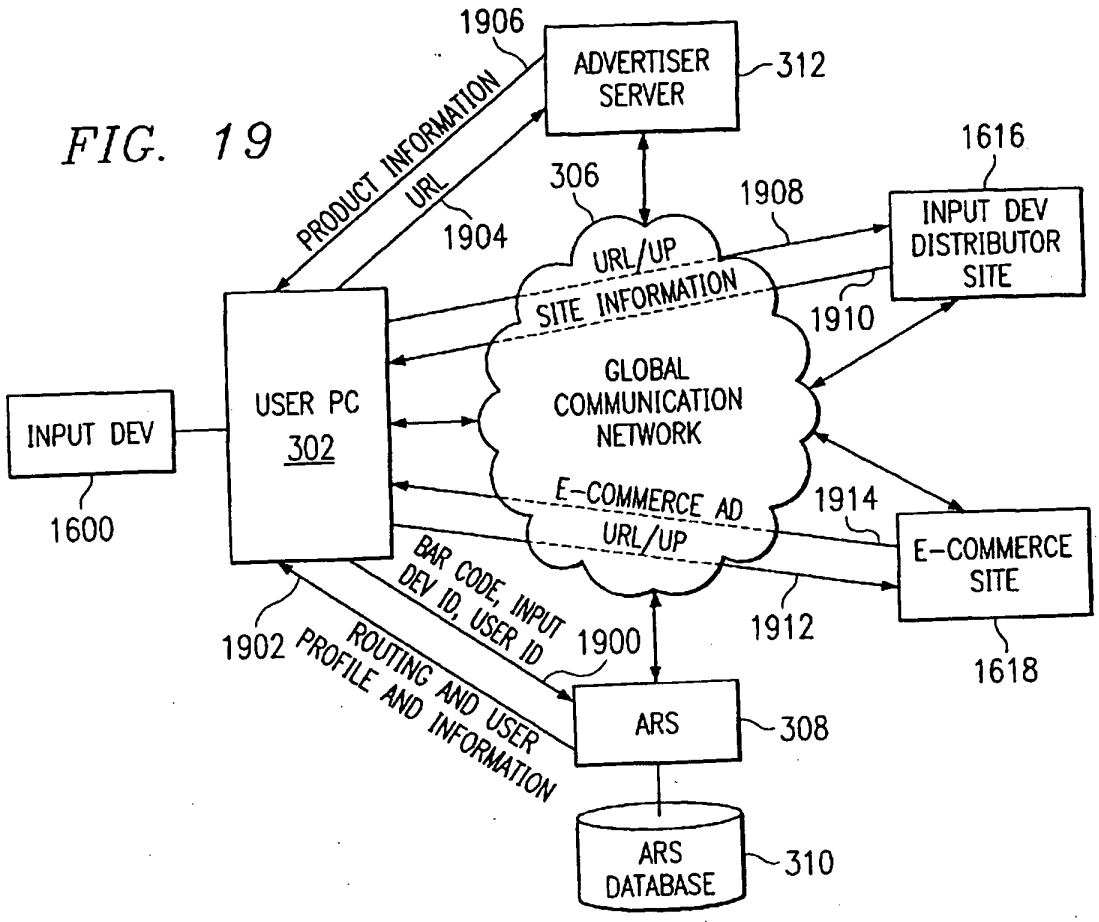

1906
ADVERTISER SERVER
312
PRODUCT INFORMATION
URL
1904
306
1908
1616
INPUT DEV DISTRIBUTOR SITE
URL/UP
SITE INFORMATION
1910
GLOBAL COMMUNICATION NETWORK
INPUT DEV
USER PC
302
1600
E-COMMERCE AD
URL/UP
1914
E-COMMERCE SITE
1618
BAR CODE, INPUT DEV ID, USER ID
1902
ROUTING AND USER PROFILE AND INFORMATION
1900
1912
ARS
308
ARS DATABASE
310

FIG. 20

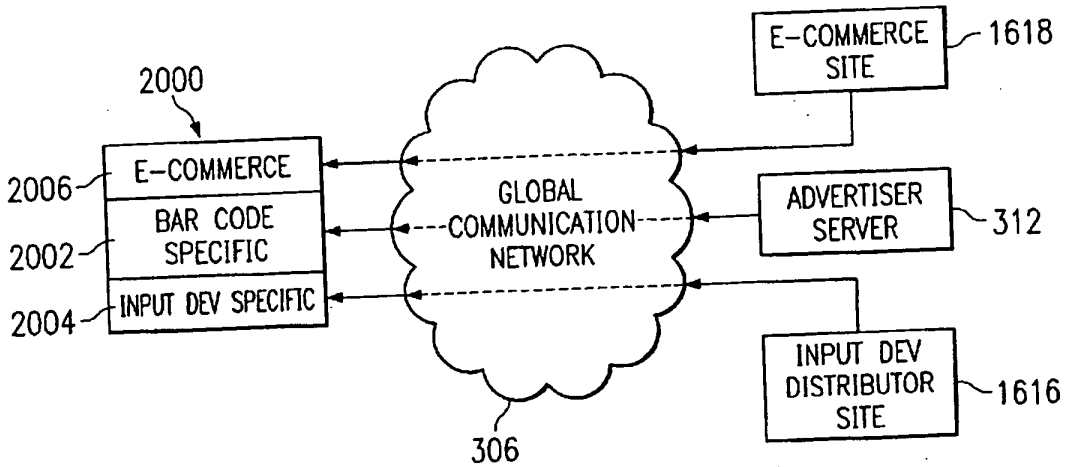

E-COMMERCE SITE
1618
2000
E-COMMERCE
2006
BAR CODE SPECIFIC
2002
INPUT DEV SPECIFIC
2004
GLOBAL COMMUNICATION NETWORK
ADVERTISER SERVER
312
INPUT DEV DISTRIBUTOR SITE
1616
306

FIG. 21

ARS DATABASE
2100

2102		2104		2106	2108	
PRODUCT		WAND		USER	E-COMMERCE	
BAR CODE	ROUTE	ID	DISTRIBUTOR	PROFILE	BAR CODE	INFORMATION

FIG. 22

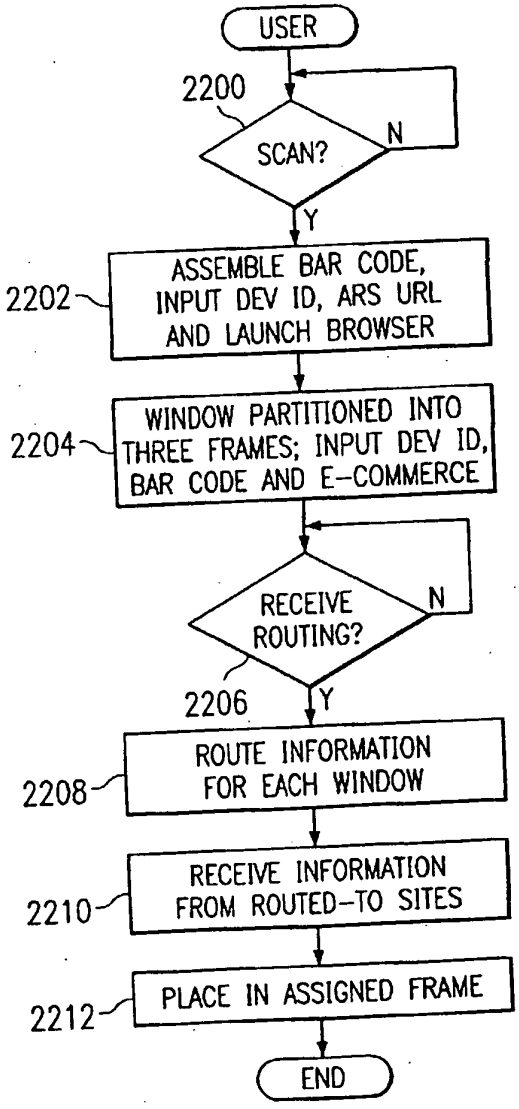


FIG. 23

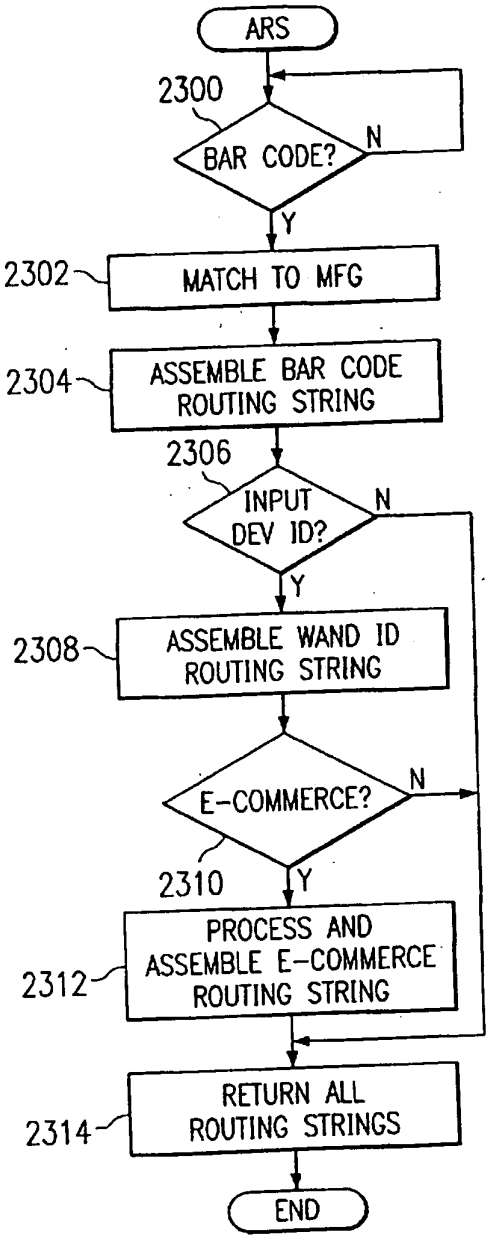
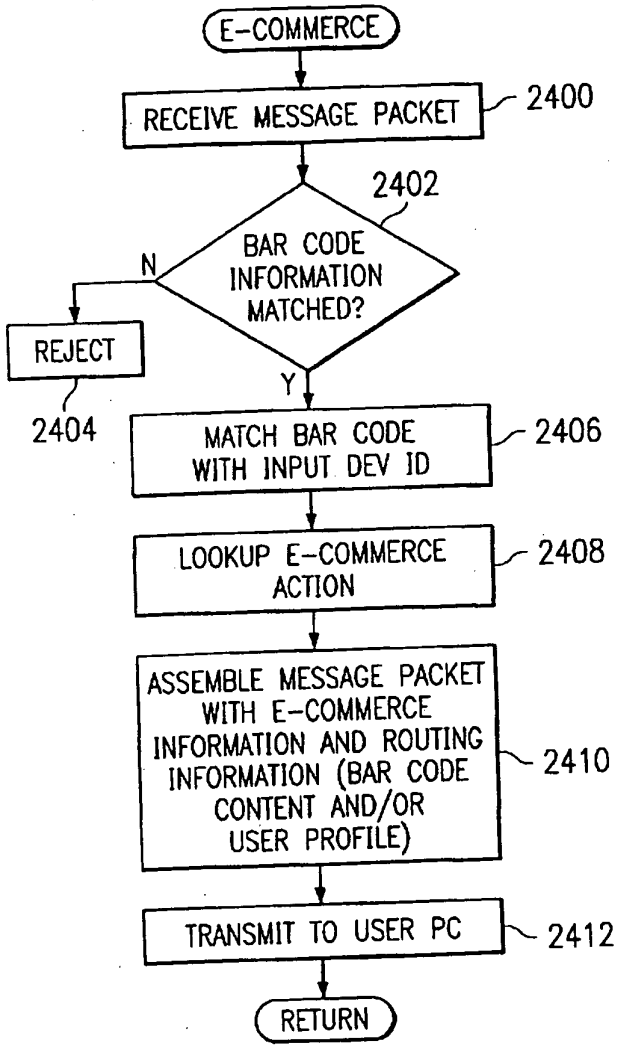

ARS
2300
BAR CODE?
N
Y
2302
MATCH TO MFG
2304
ASSEMBLE BAR CODE ROUTING STRING
2306
INPUT DEV ID?
N
Y
2308
ASSEMBLE WAND ID ROUTING STRING
E-COMMERCE?
N
2310
Y
2312
PROCESS AND ASSEMBLE E-COMMERCE ROUTING STRING
2314
RETURN ALL ROUTING STRINGS
END

FIG. 24


E-COMMERCE
RECEIVE MESSAGE PACKET
2400
2402
BAR CODE INFORMATION MATCHED?
N
REJECT
2404
Y
MATCH BAR CODE WITH INPUT DEV ID
2406
LOOKUP E-COMMERCE ACTION
2408
ASSEMBLE MESSAGE PACKET WITH E-COMMERCE INFORMATION AND ROUTING INFORMATION (BAR CODE CONTENT AND/OR USER PROFILE)
2410
TRANSMIT TO USER PC
2412
RETURN

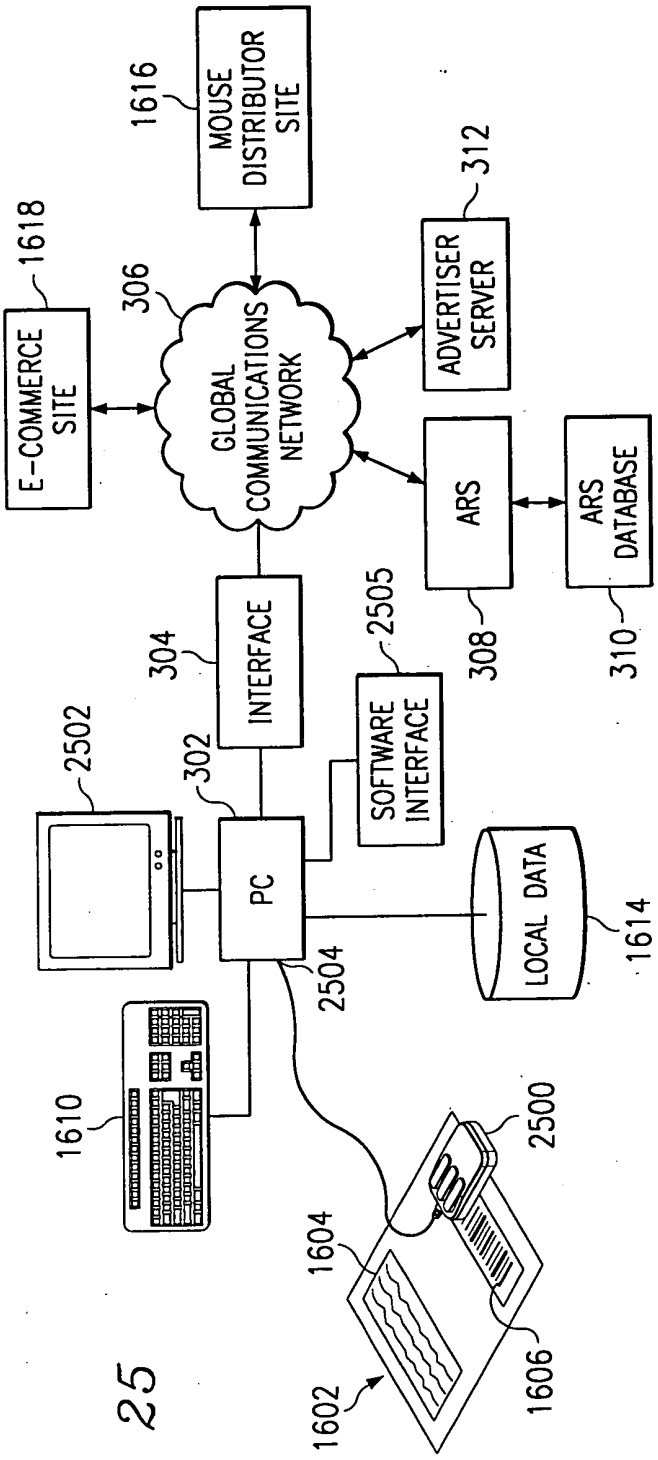

1616
MOUSE DISTRIBUTOR SITE
1618
E-COMMERCE SITE
306
GLOBAL COMMUNICATIONS NETWORK
312
ADVERTISER SERVER
304
INTERFACE
2505
SOFTWARE INTERFACE
308
ARS
310
ARS DATABASE
2502
302
PC
2504
LOCAL DATA
1614
1610
2500
1604
1602
1606

FIG. 25

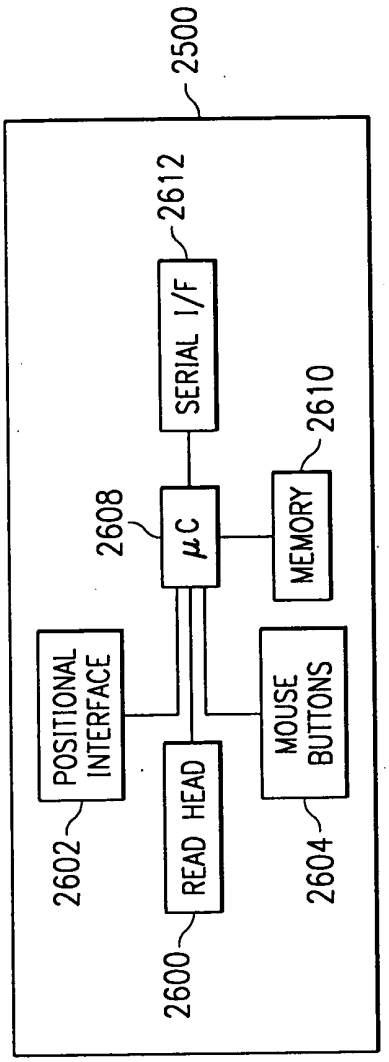

2500
2612
SERIAL I/F
2608
μC
2610
MEMORY
POSITIONAL INTERFACE
2602
READ HEAD
2600
MOUSE BUTTONS
2604

FIG. 26

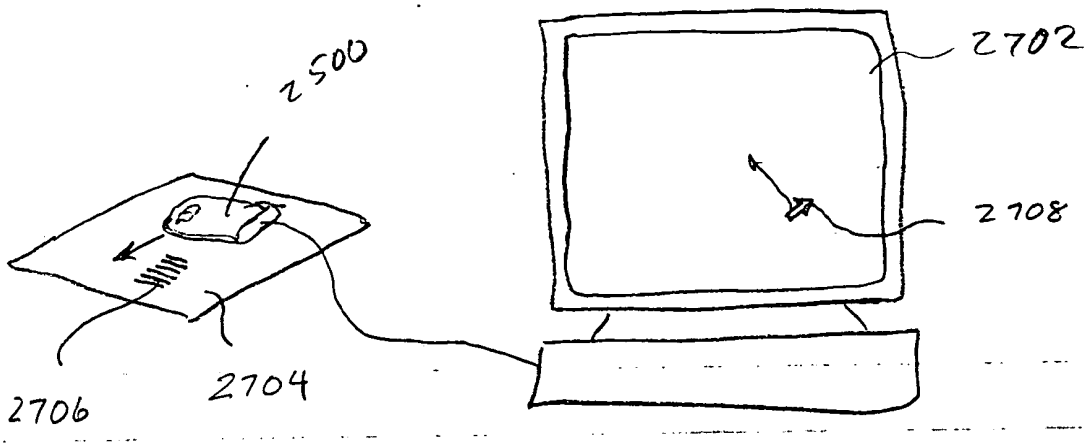

2500
2702
2708
2706
2704

FIG 27

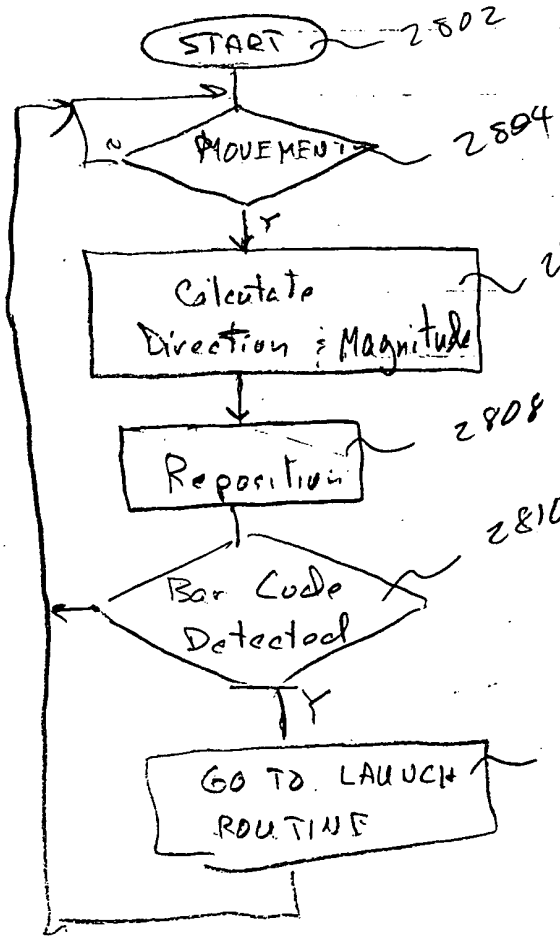

START
2802
MOVEMENT
2804
N
Y
Calculate Direction & Magnitude
2806
Reposition
2808
Bar Code Detected
2810
Y
GO TO LAUNCH ROUTINE
2812

FIG 28

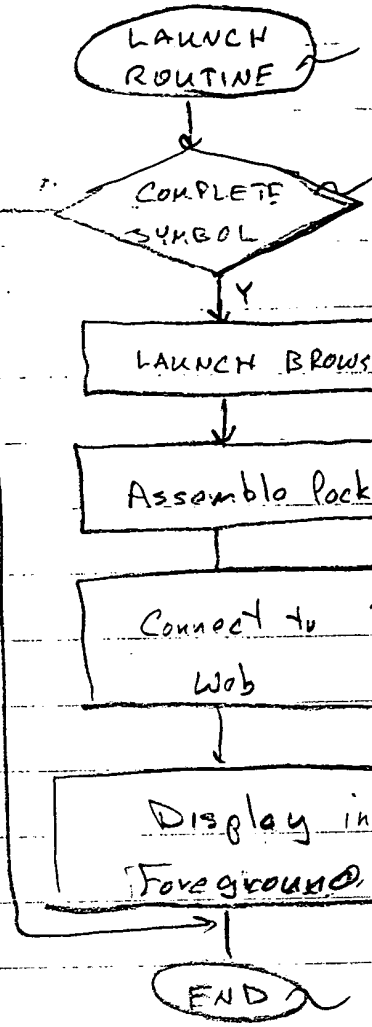


FIG 29

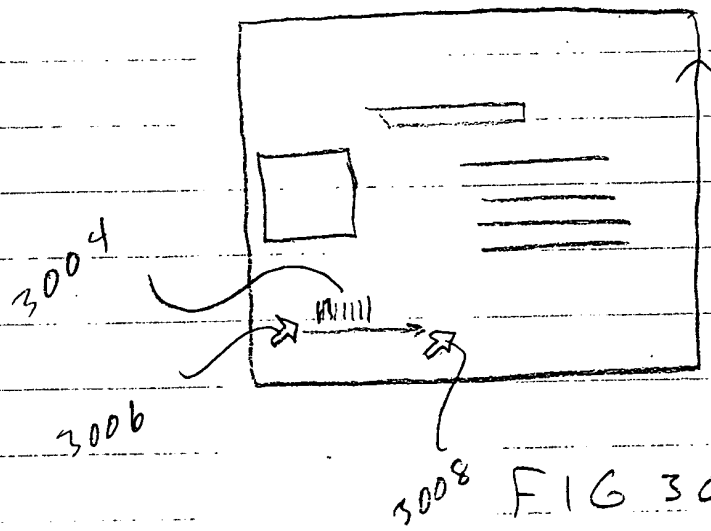


FIG 30

Docket No. PHLY-24,896

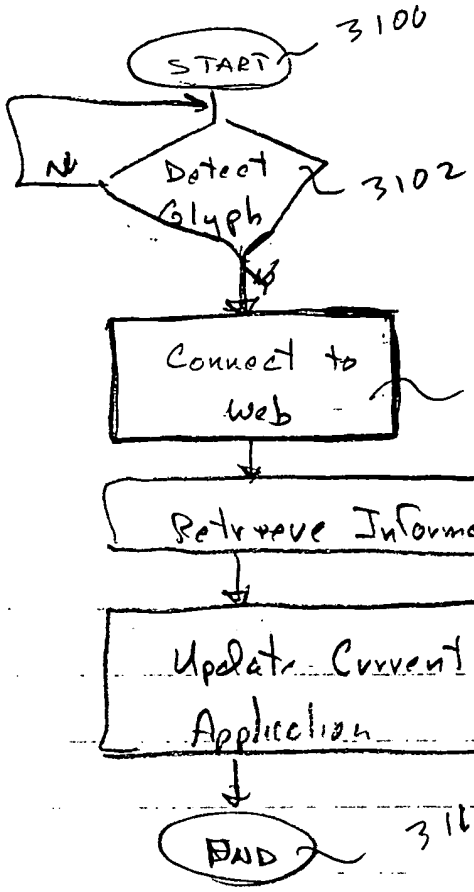


FIG 31

09450356 - 042202